

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's Amendment filed on 7/11/2008 has been entered with newly added claims 18-28 and cancelled claims 1-17. In this Office Action, claims 18-28 are pending.

### ***EXAMINER'S AMENDMENT***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Henry T. Brendzel, Reg. No. 26,844 on 8/16/2008.

***Claims:*** *Replace amended on record claims 18-28 with the following:*

**18.** (Currently Amended) A computer-implemented method executed in a visualization platform that includes a physical display coupled to the visualization platform, a data collector element for collecting real-time data from a network, a visualization interface

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element, and an aggregation element interposed between the data collector element and the visualization interface element, characterized by:

said data collection element includes a schema file that includes an entry for each of a plurality of data record types, each entry specifying a data record format of an ordered set of fixed-length fields, and the collection module is constructed to:

[[•]] receive data records of said types,

[[•]] if [[a]] the received data record is of a variety A, store the received data record in a storage medium with an association to said corresponding entry of said schema file, wherein the variety A data record is a record with an ordered fixed-length fields format that correspond to ~~an~~ the entry of said ~~schema~~ schema file;

[[•]] if [[a]] the received data record is of a variety B, convert the received data record to an ordered fixed-length fields format that correspond to an entry of said ~~schema~~ schema file and store in said storage medium the converted data record with an association to said corresponding entry of said schema file, wherein the variety B data record is a record that does not have an ordered fixed-length fields format that correspond to an entry of said ~~schema~~ schema file; and

said aggregation element includes processing modules that process said records (~~hereinafter~~, DDS tool[[s]]), and processing modules that process aggregates of said records (~~hereinafter~~, AGGR tool[[s]]), and said aggregation element processes streams that contains pluralities of said records in a pipeline manner, and

said visualization interface element is constructed to display, on said display, information generated by one or more of said AGGR tool[[s]];

wherein the aggregation element also includes geometry modules that map data to display objects and coloring of said display objects, wherein the display objects are taken from a set that comprises points, lines, polygons, and triangles, each of said geometry modules having a standard input and a standard output, wherein the standard input is an input that accepts data that is sent to a geometry module, and the standard output is an output that transmits out of said geometry module processing results created by said geometry module.

1. (Currently Amended) The computer-implemented method of claim 18, wherein the collection element is constructed to receive either said real-time data records from said network, or data records from a disk storage medium, as specified by a user.

2. (Currently Amended) The computer-implemented method of claim 1, wherein said collection element is constructed to receive data records from said disk arrangement using a Direct-IO port of said disk storage medium.

3. (Currently Amended) The computer-implemented method of claim 18, wherein each of said DDS and AGGR tools has a standard input and a standard output, wherein a standard input is an input that accepts data that is sent to the tool, and a

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standard output is an output that transmits out processing results created by said tool, and said pipeline processing is executed by specifying that the standard output of one of said tools is pipelined to the standard input of one or more of said tools.

**4. (Currently Amended)** The computer-implemented method of claim **18**, wherein said processing is executes a plurality of said processing modules concurrently on data that is obtained from a specified source through execution of a DDS tool, and said specified source is taken from a set that includes said disk storage medium and standard input, wherein standard input is input that accepts information that is sent to the DDS tool.

**5. (Currently Amended)** The computer-implemented method of claim **4**, wherein the specified source is set via a parameter that is specified to an instantiation of said DDS tool.

**6. (Canceled)**

**7. (Currently Amended)** The computer-implemented method of claim **18**, **6** wherein said geometry modules concurrently map a plurality of data sets, each of which results in a distinct display of the mapped data set on said physical display.

8. (Currently Amended) The computer-implemented method of claim 18, 7 wherein said visualization interface element is further constructed to allow users that have access to the display provided by said physical display to alter data that is processed and displayed.

9. (Currently Amended) The computer-implemented method of claim 18, 8 wherein said visualization interface element includes a module to focus that which is displayed on said physical display onto a chosen dataset, and a module for altering the dataset that is processed and displayed.

10. (Canceled)

### ***Reasons for allowance***

3. The following is an examiner's statement of reasons for allowance:

- Prior art of record does not appear to teach or suggest or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claim 18. The prior art of record fails to teach or suggest in combination of claimed elements including "the received data record is of a variety B, convert the received data record to an ordered fixed-length fields format that correspond to an entry of said schema file and store in said storage medium the converted data record with an

association to said corresponding entry of said schema file, wherein the variety B data record is a record that does not have an ordered fixed-length fields format that correspond to an entry of said schema file”, “said aggregation element includes processing modules that process said records (DDS tool), and processing modules that process aggregates of said records (AGGR tool), and said aggregation element processes streams that contains pluralities of said records in a pipeline manner” and “the aggregation element also includes geometry modules that map data to display objects and coloring of said display objects, wherein the display objects are taken from a set that comprises points, lines, polygons, and triangles, each of said geometry modules having a standard input and a standard output, wherein the standard input is an input that accepts data that is sent to a geometry module, and the standard output is an output that transmits out of said geometry module processing results created by said geometry module” as recited in independent claims 18.

- Brown et al. (US Patent 6,473,080) teach an automated interface for automatically extracting information from unformatted data and for generating and displaying that information for a user in a user-selected format as a readily comprehensible graphical display. Lakritz (US Patent 6,526,426) teaches an intuitive user interface for managing document translation for multilingual Internet Web sites, documents, data streams, and non-text files, enabling the user to incrementally update the language

content of a Web site or document and enhancing the maintainability and storage of multilingual electronic content. Sattar et al. (US Patent 6,154,728) teaches a method for automatic and distributed inventory processing for remote communications sites such as for remote cellular sites.

- Examiner Initiated an interview with Applicant representative 9/16/2008 and suggested to combine claim 24 with claim 18 and cancelling Jepson claim 28. Applicant agreed and authorized Examiner for an examiner's amendment to expedite the prosecution. For details see Summary of the Interview.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sathyanarayan Pannala whose telephone number is (571) 272-4115. The examiner can normally be reached on 8:00 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sathyanarayan Pannala/  
Primary Examiner

srp  
October 6, 2008